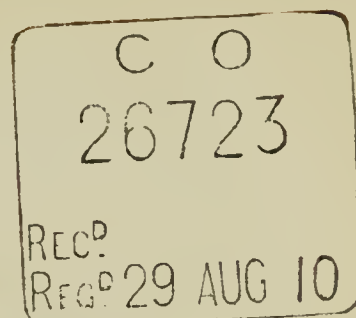


Federated Malay States.



THE MEDICAL REPORT

FOR THE

STATE OF NEGRI SEMBILAN,

1909.

RETURN OF THE STATISTICS OF POPULATION OF NEGRI SEMBILAN
FOR THE YEAR 1909.

	Europeans.	Eurasians.	Chinese.	Malays.	Tamils.	Others.	Total.
Number of Inhabitants in 1908 ...	1,252		43,299	68,240	6,486	392	119,669
„ Births during the year 1909	17		358	2,459	138	24	2,996
„ Deaths „ „	14		1,623	1,887	1,198	86	4,808
„ Immigrants „ „	294		4,796	1,770	1,291	20	8,171
„ Emigrants „ „	295		5,407	793	1,125	7	7,627
„ Inhabitants in „ „ ...	1,254		41,423	69,789	5,592	343	118,401
Increase	2		...	1,549	...	...	...
Decrease ... ..	...		1,876	...	894	49	1,268

METEOROLOGICAL RETURN OF SEREMBAN FOR THE YEAR 1909.

	Temperature.						Rainfall.*		Winds.	
	Solar Maximum.	Minimum on Grass.	Shade Maximum.	Shade Minimum.	Range.	Mean.	Amount in Inches.	Degree of Humidity.	General Direction.	Average Force.
January	141		87	69	18	78	4.35	75	N.W.	
February	144		86	70	16	78	8.62	79	N.W.	
March	144		88	70	18	79	8.68	75	N.W.	
April	142		88	71	17	79	14.98	82	S.W.	
May	137		89	72	17	80	4.63	79	N.W.	
June	135		86	70	16	78	13.79	81	N.W.	
July	137		87	69	18	78	4.83	84	N.W.	
August	140		86	69	17	77	7.03	89	N.W.	
September	139		89	70	19	79	3.99	81	N.W.	
October	140		89	70	19	79	6.86	74	N.W.	
November	135		86	69	17	77	6.89	77	N.W.	
December	117		85	65	20	75	5.31	82	N.W.	
Mean	137		87	69	17	78	7.49	79	N.W.	

* Total Rainfall 89.96 inches.

RETURN OF DISEASES AND DEATHS IN 1909 AT THE FOLLOWING INSTITUTIONS:—

SEREMBAN HOSPITAL, GAOL HOSPITAL, MANTIN HOSPITAL, THE DISTRICT HOSPITALS AT PORT DICKSON, TAMPIN, KUALA PILAH AND JELEBU, THE AYER KUNING HOSPITAL AND THE BERI-BERI HOSPITAL, PORT DICKSON.

Diseases.	* Remaining in Hospital at end of 1908.	Yearly Total.		† Total Cases Treated.	‡ Remaining in Hospital at end of 1909.
		Admis- sions.	Deaths.		
GENERAL DISEASES.					
Small-pox					
Chicken-pox ... ..	...	7	...	7	4
Measles ... ..	...	5	...	5	
Typhus					
Dengue					
Influenza					
Plague					
Mumps ... ..	...	2	...	2	
Diphtheria					
Febricula					
Enteric Fever	2	8	3	10	1
Cholera					
Dysentery	48	971	229	1,019	27
Yellow Fever					
Beri-beri	168	1,019	34	1,187	97
Malarial Fever—					
(a) Intermittent—					
Simple Tertian	14	1,074	6	1,088	55
Sub Tertian	6	654	75	660	14
Quartan	1	104	6	105	4
Irregular... ..	...	93	7	93	3
Type undiagnosed	64	1,224	41	1,288	29
(b) Remittent ... ..	...	1	1	1	
(c) Pernicious R					
Phagedæna—					
(a) Sloughing	1	57	3	58	5
(b) Hospital gangrene					
Erysipelas ... ..	...	8	1	8	
Carried forward ...	304	5,227	406	5,531	239

* i.e., the year previous to that for which the Return is made.

† “Total cases treated” will, of course, include those remaining in Hospital at the end of the previous year.

‡ The figures in this column to be carried on to the next year’s Return.

Diseases.						* Remaining in Hospital at end of 1908.	Yearly Total.		† Total Cases Treated.	‡ Remaining in Hospital at end of 1909.
							Admis- sions.	Deaths.		
GENERAL DISEASES—(cont.)										
<i>Brought forward</i> ...						304	5,227	406	5,531	239
Pyæmia	...	...	...	...	...	...	1	1	1	
Septicæmia	...	...	...	...	...	...	6	4	6	
Tetanus	...	...	...	...	...	...
Tubercle	...	...	...	...	...	...	5	...	5	4
Leprosy—	...	...	...	...	...
(a) Tubercular	...	...	...	}		3	10	...	13	2
(b) Anæsthetic	...	...	...				
Yaws	...	...	...	...	...	1	5	...	6	1
Syphilis—										
(a) Primary	...	...	...	...	...	2	31	...	33	1
(b) Secondary	...	...	...	...	...	6	50	...	56	1
(c) Tertiary	...	...	...	...	...	3	109	1	112	17
Gonorrhœa	...	...	...	...	...	3	97	...	100	5
Hydrophobia	...	...	...	...	...
Scurvy	...	...	...	...	...
Alcoholism	...	...	...	...	...	...	7	1	7	
Delirium Tremens	...	...	...	...	...	...	1	...	1	
Rheumatic Fever	...	...	...	...	...	...	2	...	2	
Rheumatism	...	...	...	...	...	28	292	1	320	19
Gout	...	...	...	...	...
New Growths, non-malignant	...	...	...	...	...	...	7	...	7	1
Do. malignant	...	...	...	...	...	1	5	3	6	1
Rickets	...	...	...	...	...
Anæmia	...	...	...	...	...	13	177	10	190	2
Myxœdema	...	...	...	...	...
Diabetes mellitus	...	...	...	...	...	..	2	...	2	1
Do. insipidus	...	...	...	...	...
Debility	...	...	...	...	...	20	238	54	258	8
Other Diseases	...	...	...	...	...	1	10	1	11	1
<i>Carried forward</i> ...						385	6,282	482	6,667	303

* *i.e.*, the year previous to that for which the Return is made.

† "Total cases treated" will, of course, include those remaining in Hospital at the end of the previous year.

‡ The figures in this column to be carried on to the next year's Return.

Diseases.	* Remaining in Hospital at end of 1908.	Yearly Total.		† Total Cases Treated.	‡ Remaining in Hospital at end of 1909.
		Admis- sions.	Deaths.		
<i>Brought forward</i> ...	385	6,282	482	6,667	303
LOCAL DISEASES.					
NERVOUS SYSTEM.					
Sub-Section 1—					
Neuritis ... ..	...	16	1	16	
Meningitis ... ..	...	5	5	5	
Myelitis ... ..	...			
Hydrocephalus ... ..	...			
Encephalitis ... ..	...			
Abscess of brain ... ..	...			
Congestion of brain ... ..	...			
Sub-Section 2—					
Apoplexy ... ..	...	1	1	1	31
Paralysis	4	16	6	20	2
Bed-sore ... ..	...			
Chorea ... ..	...			
Epilepsy	1	2	2	3	
Neuralgia	1	5	...	6	1
Hysteria ... ..	...			
Sub-Section 3—					
Idiocy ... ..	...			
Mania ... ..	...	1	...	1	1
Melancholia ... ..	...	4	...	4	
Dementia	1	...	...	1	
Delusional Insanity	10	43	2	53	25
Other Diseases of the System	4	4	...	8	
EYE.					
Conjunctiva—					
Conjunctivitis	1	16	...	17	1
Cornea—					
Keratitis	1	6	...	7	
Ulceration	3	10	...	13	1
Opacity ... ..	...			
<i>Carried forward</i> ...	411	6,411	499	6,822	334

* i.e., the year previous to that for which the Return is made.

† "Total cases treated" will, of course, include those remaining in Hospital at the end of the previous year.

‡ The figures in this column to be carried on to the next year's Return.

Diseases.	* Remaining in Hospital at end of 1908.	Yearly Total.		† Total Cases Treated.	‡ Remaining in Hospital at end of 1909.
		Admis- sions.	Deaths.		
<i>Brought forward</i> ...	411	6,411	499	6,822	334
LOCAL DISEASES—(cont.)					
EYE—(cont.)					
Schlerotic—					
Staphyloma... ..	...	4	...	4	3
Iris—					
Iritis	1	8	...	9	
Glaucoma					
Hypopyon					
Lens—					
Cataract	1	2	...	3	
Eyelids—					
Entropion					
Other Eye Diseases	1	13	...	14	
EAR.					
Inflammation ... ..	...	2	...	2	
Other Ear Diseases	1	9	...	10	1
NOSE.					
Inflammation ... ..	...			
Other Nose Diseases					
CIRCULATORY SYSTEM.					
Membranes—					
Pericarditis ... ..	...	1	1	1	
Endocarditis ... ..	...	1	1	1	
Valvular Diseases	2	32	5	34	3
Muscular Substance—					
Hypertrophy					
Dilatation	2	11	1	13	
Other Diseases of the System	1	11	4	12	
RESPIRATORY SYSTEM.					
Larynx—					
Laryngitis ... ..	...	2	...	2	
<i>Carried forward</i> ...	420	6,507	511	6,927	341

* i.e., the year previous to that for which the Return is made.

† "Total cases treated" will, of course, include those remaining in Hospital at the end of the previous year.

‡ The figures in this column to be carried on to the next year's Return.

Diseases.	* Remaining in Hospital at end of 1908.	Yearly Total.		† Total Cases Treated.	‡ Remaining in Hospital at end of 1909.
		Admis- sions.	Deaths.		
<i>Brought forward</i> ...	420	6,507	511	6,927	341
LOCAL DISEASES—(cont.)					
RESPIRATORY SYSTEM—(cont.)					
Bronchi—					
Bronchitis	9	225	2	234	6
Asthma ... ..	...	24	...	24	1
Lung—					
Congestion ... ..	...	...	...	...	...
Hæmoptysis ... ..	...	4	...	4	...
Pneumonia	5	134	68	139	4
Gangrene ... ..	...	1	1	1	...
Phthisis	15	233	119	248	11
Emphysema ... ..	...	1	...	1	...
Pleura—					
Pleurisy	1	44	10	45	2
Empyema ... ..	...	3	2	3	1
Other Diseases of the System ... ..	...	5	1	5	...
DIGESTIVE SYSTEM.					
Mouth—					
Stomatitis ... ..	...	12	2	12	...
Dental Periostium—					
Gum-boil	1	8	...	9	...
Fauces—					
Tonsillitis ... ..	...	5	...	5	...
Stomach—					
Gastritis ... ..	...	6	1	6	...
Dyspepsia	2	41	1	43	...
Intestines—					
Appendicitis ... ..	...	2	1	2	...
Enteritis ... ..	...	1	...	1	...
Sprue ... ..	...	...	...	...	...
Hernia ... ..	...	12	1	12	...
Constipation	1	77	...	78	...
Diarrhœa	4	114	24	118	1
<i>Carried forward</i> ...	458	7,459	744	7,917	367

* i.e., the year previous to that for which the Return is made.

† “Total cases treated” will, of course, include those remaining in Hospital at the end of the previous year.

‡ The figures in this column to be carried on to the next year’s Return

Diseases.	* Remaining in Hospital at end of 1908.	Yearly Total.		† Total Cases Treated.	‡ Remaining in Hospital at end of 1909.
		Admis- sions.	Deaths.		
<i>Brought forward</i> ...	458	7,459	744	7,917	367
LOCAL DISEASES—(cont.)					
DIGESTIVE SYSTEM—(cont.)					
Rectum and Anus—					
Hemorrhoids ...	1	20	...	21	3
Fistula in Ano ...	...	6	...	6	
Liver—					
Hepatitis ...	...	13	...	13	1
Abscess Liver ...	1	4	1	5	
Cirrhosis ...	...	35	17	35	2
Congestion Liver ...	...	...	...	...
Jaundice ...	1	16	2	17	
Peritoneum—					
Peritonitis ...	...	5	3	5	
Ascites ...	1	20	7	21	3
Other Diseases of the System ...	...	21	1	21	
LYMPHATIC SYSTEM.					
Spleen—					
Splenitis ...	15	162	3	177	1
Bubo ...	3	57	...	60	4
Lymphangitis ...	...	2	...	2	
Elephantiasis ...	...	1	...	1	
Other Diseases of the System ...	...	23	...	23	
URINARY SYSTEM.					
Kidney—					
Acute Nephritis ...	...	19	3	19	2
Bright's Disease ...	23	125	40	148	3
Hæmaturia ...	...	2	...	2	
Chyluria ...	...	...	...	...
Bladder—					
Cystitis ...	...	6	...	6	
Calculus ...	...	...	...	...
Other Diseases of the System ...	1	7	...	8	1
<i>Carried forward</i> ...	504	8,003	821	8,507	387

* i.e., the year previous to that for which the Return is made.

† "Total cases treated" will, of course, include those remaining in Hospital at the end of the previous year.

‡ The figures in this column to be carried on to the next year's Return.

Diseases.	* Remaining in Hospital at end of 1908.	Yearly Total.		† Total Cases Treated.	‡ Remaining in Hospital at end of 1909.
		Admis- sions.	Deaths.		
<i>Brought forward</i> ...	504	8,003	821	8,507	387
LOCAL DISEASES—(<i>cont.</i>)					
GENERATIVE SYSTEM.					
Urethra—					
Stricture ... ..	...	10	...	10	2
Prepuce—					
Phimosis	1	18	...	19	
Paraphimosis ... ..	...	11	...	11	
Penis—					
Soft Chancre	4	75	...	79	1
Scrotum—					
Sloughing Scrotum	2	21	2	23	2
Tunica Vaginalis—					
Hydrocele	2	11	...	13	
Testicle—					
Orchitis ... ..	...	18	...	18	
Epididymitis ... ..	...	4	...	4	
Other Diseases (male)	1	9	...	10	2
Uterus—					
Metritis ... ..	...			
Uterine Displacements ... ..	...			
Amenorrhœa ... ..	...	1	...	1	
Dysmenorrhœa ... ..	...			
Menorrhagia ... ..	...			
Leucorrhœa ... ..	...			
Other Diseases (female) ... ..	...	8	1	8	1
ORGANS OF LOCOMOTION.					
Bones—					
Ostitis ... ..	...	4	...	4	1
Periostitis ... ..	...	6	1	6	1
Caries ... ..	...	3	...	3	
Necrosis	2	6	1	8	
<i>Carried forward</i> ...	516	8,208	826	8,724	397

* *i.e.*, the year previous to that for which the Return is made.

† "Total cases treated" will, of course, include those remaining in Hospital at the end of the previous year.

‡ The figures in this column to be carried on to the next year's Return.

Diseases.	* Remaining in Hospital at end of 1908.	Yearly Total.		† Total Cases Treated.	‡ Remaining in Hospital at end of 1909.
		Admis- sions.	Deaths.		
<i>Brought forward</i> ...	516	8,208	826	8,724	397
LOCAL DISEASES—(<i>cont.</i>)					
ORGANS OF LOCOMOTION—(<i>cont.</i>)					
Joints—					
Synovitis	3	19	2	22	3
Ankylosis	1	2	...	3	
Arthuitis ... ..	...	1	...	1	1
Spine—					
Caries Spine					
Curvature Spine					
Muscles—					
Myalgia ... ..	...	4	...	4	
Other Diseases	1	6	...	7	
CONNECTIVE TISSUE.					
Cellulitis	3	17	1	20	1
Abscess	20	210	7	230	16
Gangrene	6	27	20	33	
SKIN.					
Eczema ... ..	...	61	...	61	
Psoriasis	1	3	...	4	
Herpes... ..	...	1	...	1	
Do. Zoster... ..	...	3	...	3	1
Ulcer	166	1,979	1	2,145	120
Boil					
Carbuncle	1	11	2	12	2
Onychia ... ..	...	2	...	2	
Whitlow					
Other Diseases ... ..	...	34	...	34	1
GENERAL INJURIES.					
Burns and Scalds	1	8	...	9	2
Sunstroke					
Multiple Injury ... ..	...	5	...	5	
Starvation ... ..	...	1	1	1	
Shock					
<i>Carried forward</i> ...	719	10,602	860	11,321	544

* *i.e.*, the year previous to that for which the Return is made.

† "Total cases treated" will, of course, include those remaining in Hospital at the end of the previous year.

‡ The figures in this column to be carried on to the next year's Return.

Diseases.	* Remaining in Hospital at end of 1908.	Yearly Total.		† Total Cases Treated.	‡ Remaining in Hospital at end of 1909.
		Admis- sions.	Deaths.		
<i>Brought forward</i> ...	719	10,602	860	11,321	544
LOCAL INJURIES.					
Burns and Scalds ... ..	...	2	1	2	
Wounds	21	233	1	254	12
Sprains	3	16	...	19	
Dislocations	1	2	...	3	
Fractures, simple ... ..	...	22	1	22	4
Do. compound... ..	2	11	2	13	
Other Injuries	1	20	2	21	1
MALFORMATIONS					
SURGICAL OPERATIONS.					
Amputations ... ..	...	4	1	4	
POISONS.					
Mercury					
Alcohol ... ..	...	1	...	1	
Opium... ..	...	8	...	8	
Other Poisons... ..	...	1	...	1	
POISONED WOUNDS	1	...	...	1	
PARASITES.					
Distomum Sinense					
Tœnia Solium... ..					
Ascaris Lumbricoides	2	32	...	34	2
Anchylostomum Duodenale	7	105	13	112	8
Oxyuris Vermicularis					
Filaria Medinensis ... ..	...	1	...	1	
Acarus Scabiei	8	141	...	149	3
Tinea Circinata	1	16	...	17	
Other Parasites	1	6	...	7	
UNDER OBSERVATION	2	58	...	60	10
TOTAL ...	769	11,281	881	12,050	584

* *i.e.*, the year previous to that for which the Return is made.

† "Total cases treated" will, of course, include those remaining in Hospital at the end of the previous year.

‡ The figures in this column to be carried on to the next year's Return.

FEDERATED MALAY STATES.

STATE OF NEGRI SEMBILAN.

MEDICAL REPORT FOR THE YEAR 1909.

PUBLIC HEALTH AND VITAL STATISTICS.

There is undoubtedly progressive improvement in the registration of births and deaths, but the results must be considered to be to some extent fallacious.

The immigration and emigration returns (appendix A) include arrivals and departures by seaports only, no figures are available of the large movements of population across the boundaries of the State by railroad.

The Chinese population on the 31st December, 1909, is shown to be 41,433, these figures are probably greatly in excess of the actual numbers.

During the past few years there has been a steady exodus of mining coolies from all parts of the State, the number of Chinese in the mines in 1907 was 21,863, in 1908 16,994, and in 1909 12,294; these figures compiled by the Mines Department must be considered as approximately accurate and indicate a rapid decline in the Chinese population.

On the other hand, the number of Indians is probably larger than is indicated in the return, there were 5,606 Indians on estates alone, and there must be at least another thousand employed as shopkeepers, or working in the Police, Railway and Public Works Departments.

For a fair estimate of the condition of the public health a new census is indispensable and a more comprehensive system of compilation of returns of population must be devised which will take cognisance of the movements of population by land as well as by sea; without complete figures vital statistics are of little practical use and no scientific value.

The subjoined return gives the birth-rate and death-rate per mille for all nationalities during the past three years:

BIRTH- AND DEATH-RATE PER 1,000 LIVING.

—	Europeans and Eurasians.			Chinese.			Malays.			Indians.			Others.			Total population.		
	1907.	1908.	1909.	1907.	1908.	1909.	1907.	1908.	1909.	1907.	1908.	1909.	1907.	1908.	1909.	1907.	1908.	1909.
Birth-rate ...	20	17	13	6	7	8	38	37	35	13	16	22	34	60	65	25	25	25
Death-rate ...	12	7	11	43	48	38	29	31	27	201	173	198	132	150	234	44	45	40

The Malay birth-rate remains high and there is a material improvement in their death-rate.

The total numbers of births and deaths for all nationalities during the past three years is shown below:

BIRTHS.

		Malays.		Chinese.		Indians.		Europeans and Eurasians.		Others.		Total.
1907	...	2,565	...	318	...	83	...	20	...	24	...	3,010
1908	...	2,557	...	321	...	106	...	17	...	24	...	3,025
1909	...	2,459	...	356	...	156	...	17	...	24	...	2,996

DEATHS.

		Malays.		Chinese.		Indians.		Europeans and Eurasians.		Others.		Total.
1907	...	1,989	...	1,991	...	1,277	...	10	...	58	...	5,267
1908	...	2,174	...	2,097	...	1,127	...	9	...	59	...	5,466
1909	...	1,887	...	1,625	...	1,188	...	14	...	86	...	4,808

No cases of grave zymotic disease came under observation during the year.
Small outbreaks of measles and chicken-pox occurred, they call for no special notice.

STATE HOSPITALS AND PREVAILING DISEASES.

There were 12,050 persons treated as in-patients in the various Government hospitals, this total is less by 834 than that for the previous year.

The daily average number of patients in all hospitals was 678 as compared with 773 in 1908.

The decline in the number of in-patients was observed principally at Seremban hospital.

Subjoined return gives the number of in-patients treated at all hospitals together with the death-rate for the past five years :

				Total treated.				Deaths.				Mortality.
1905	...	...	...	6,924	...	...	...	553	...	...	...	7.09 per cent.
1906	...	...	...	8,948	...	...	...	957	...	...	...	10.06 "
1907	...	...	...	10,401	...	...	...	1,346	...	...	...	12.94 "
1908	...	...	...	12,884	...	...	...	1,313	...	...	...	10.19 "
1909	...	...	...	12,050	...	...	...	881	...	...	...	7.31 "

Of the 881 deaths 190 or over 21 per cent. of the total died within 48 hours after admission, exclusive of these 190 cases the death-rate for the year in all hospitals was 5.82 per cent.

Return of diseases more commonly treated with percentages of deaths during 1908 and 1909 :

Disease.	Number treated.		Number of deaths.		Percentage of deaths.	
	1908.	1909.	1908.	1909.	1908.	1909.
Beri-beri ...	2,131	1,187	158	34	7.41	2.86
Dysentery ...	1,253	1,019	455	229	36.31	22.47
Diarrhoea ...	302	118	93	24	30.79	20.33
Malarial fever ...	3,010	3,235	158	136	5.24	4.20
Debility ...	337	258	71	54	21.06	20.93
Pulmonary disease	482	704	158	203	32.78	28.83
Other diseases ...	5,369	5,529	220	201	4.09	3.63
Total ...	12,884	12,050	1,313	881	1.019	7.31

Malarial fever, as usual, produced the largest number of admissions, over 26 per cent. of the total being due to this disease in one form or another.

Beri-beri accounts for 1,187 cases treated, with a mortality of 2.86 per cent., excluding 14 cases which died within 48 hours of admission, the death-rate is 1.70 per cent. It may be said that the exclusion of uncured rice from the dietary of beri-berics is almost as valuable a curative measure as is its exclusion from the dietary of healthy persons a preventive against the incidence of the disease.

Pulmonary diseases produced the highest case-mortality, 704 cases, with a death-rate of over 28 per cent.; under the classification is included pulmonary tuberculosis with 248 cases and 119 deaths, and pneumonia 139 cases and 68 deaths; this latter disease frequently complicated with malignant malaria has been particularly fatal.

OUT-PATIENTS.

										Total treated.
1905	...	...	...	...	...	...	...	...	...	12,641
1906	...	...	...	...	...	...	...	...	...	14,755
1907	...	...	...	...	...	...	...	...	...	13,937
1908	...	...	...	...	...	...	...	...	...	19,215
1909	...	...	...	...	...	...	...	...	...	21,807

VACCINATION.

By the close of the year there were 49 schoolmasters in various districts of the State capable of performing vaccinations.

Vaccinations and inspections are usually performed in the school-houses on Friday in each week.

There were 6,737 persons vaccinated, and of these 5,728, or 85 per cent., were successful.

The *gurus* vaccinated 6,476 persons, the remaining 261 were vaccinated by the Medical staff.

The total cost of all vaccinations was \$1,575 or 23.5 cents per case.

Some experiments were made with samples of dessicated and laninolated lymph from England, but the results did not compare favourably with those obtained with the glycerinated lymph from Saigön.

J. R. LUCY,
Senior Medical Officer.

